

1 108. The apparatus of claim 102, further comprising a mechanical
2 biasing element carried by the support member and coupled to the first and second
3 electrodes.

1 109. An apparatus for applying electrical stimulation to a cortical
2 region of a brain of a patient, comprising:
3 an implantable support member configured to be implanted into the
4 patient proximate to a skull of the patient;
5 a mechanical biasing element carried by the support member, the
6 mechanical biasing element being elastically deformable; and
7 a first electrode and a second electrode, wherein the biasing element is
8 configured to press the first and second electrodes against the brain of the patient.

1 110. The apparatus of claim 109 wherein the biasing element
2 comprises a compressible foam.

1 111. The apparatus of claim 109 wherein the biasing element
2 comprises a spring.

1 112. The apparatus of claim 109 wherein the biasing element
2 comprises an inflatable bladder.

1 113. The apparatus of claim 109, further comprising a pulse system
2 carried by the support member.

1 114. The apparatus of claim 113 wherein:
2 the support member comprises a housing configured to be implanted at
3 least partially within the skull, the housing having a cavity; and

4 the pulse system comprises a power supply and a pulse generator within
5 the cavity of the housing.

1 115. The apparatus of claim 113 wherein:
2 the support member comprises a housing configured to be implanted at
3 least partially within the skull, the housing having a cavity; and
4 the pulse system comprises a pulse generator within the cavity of the
5 housing.

1 116. The apparatus of claim 113 wherein:
2 the support member comprises a housing configured to be implanted at
3 least partially within the skull, and the housing has a cavity; and
4 the pulse system comprises a pulse delivery system within the cavity of
5 the housing, the pulse delivery system having a receiver for receiving a pulse of
6 broadcast energy generated by an external pulse generator and a pulse former for
7 converting the broadcast energy into an electrical pulse within the support member.

1 117. The apparatus of claim 113 wherein:
2 the support member comprises a housing configured to be implanted at
3 least partially within the skull, and the housing has a cavity;
4 the pulse system comprises a pulse delivery system within the cavity of
5 the housing, the pulse delivery system having a magnetic pickup coil wrapped around
6 the core for receiving a pulse of magnetic energy generated by an external pulse
7 generator; and
8 the first and second electrodes are electrically coupled to the pulse
9 system within the housing.

1 118. The apparatus of claim 113 wherein:
2 the support member comprises a housing configured to be implanted at
3 least partially within the skull, and the housing has a cavity;
4 the pulse system comprises a pulse delivery system within the cavity of
5 the housing, the pulse delivery system having an antenna capable of receiving RF
6 energy and a pulse former coupled to the antenna; and
7 the first and second electrodes are electrically coupled to the pulse
8 system within the housing.

1 119. The apparatus of claim 109, further comprising an external
2 controller having a power supply, a pulse generator and a pulse transmitter, wherein
3 the external controller is electrically coupled to the electrodes by a cable.

1 120. The apparatus of claim 109, further comprising:
2 an external controller having a power supply, a pulse generator and a
3 pulse transmitter, wherein the external controller generates a pulse of broadcast
4 energy; and
5 a pulse system carried by the support member separate from the external
6 controller, wherein the pulse system is capable of converting the broadcast energy
7 from the external controller into a corresponding electrical pulse; and
8 wherein the electrodes are coupled to the pulse system.

1 121. An apparatus for applying electrical stimulation to a cortical
2 region of a brain of a patient, comprising:
3 an implantable support member configured to be implanted into the
4 patient proximate to a skull of the patient;
5 a pulse system within the support member;
6 a biasing element carried by the support member; and